SEQUENCE LISTING

<110>   Robinson, et al.

<120>   IDENTIFICATION OF A GENE AND MUTATION RESPONSIBLE FOR AUTOSOMAL
        RECESSIVE CONGENITAL HYDROCEPHALUS

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<150>   US 60/485,440
<151>   2003-07-08

<150>   US 60/406,285
<151>   2002-08-27

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<170>   PatentIn version 3.1

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Glu Lys Ile Pro Asn Val Leu Phe Leu Cys Asp Pro Glu Ala Arg Leu
        35                  40                  45


Gln Gln Leu Thr Ala Ser Val Pro Leu Cys Glu Gln Arg Lys Tyr Phe
    50                  55                  60
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Lys Gln Thr Asn Lys Arg Leu Glu Glu Ser Met Gly Ala Met His Arg
65                  70                  75                  80


Lys Met Ala Lys Val Ile Ser Gly Leu Gln Ser Lys Val Leu Pro Pro
                85                  90                  95


Met Ser Pro Lys Val Val Thr Glu Glu Glu Val Asn Arg Met Leu Thr
                100                 105                 110


Pro Ser Glu Phe Leu Lys Glu Met Ser Leu Thr Thr Glu Gln Lys Leu
                115                 120                 125


Ala Ser Thr Arg Ile Ile Cys Arg Pro Gln Ile Thr Glu Leu Leu Asp
    130                 135                 140


Met Gly Glu Thr Thr His Gln Lys Phe Ser Arg Val Asp Leu Asp Gln
145                 150                 155                 160


Ala Leu Phe Gln Pro Phe Pro Ser Glu Ile Ile Phe Gln Asn Tyr Ser
                165                 170                 175


Pro Cys Glu Val Tyr Glu Val Pro Leu Val Leu Arg Asn Asn Asp Lys
                180                 185                 190


Ile Pro Arg Met Val Lys Val Val Glu Glu Ser Ser Pro Tyr Phe Lys
    195                 200                 205


Ile Ile Ser Pro Lys Asp Ile Gly His Lys Val Ala Pro Gly Val Pro
    210                 215                 220


Ser Val Phe Arg Ile Leu Phe Thr Pro Glu Glu Asn Lys Asp Tyr Ala
225                 230                 235                 240


His Met Leu Thr Cys Ile Thr Glu Arg Glu Lys Phe Ile Val Pro Val
                245                 250                 255


Lys Ala Arg Gly Ala Arg Ala Ile Leu Asp Phe Pro Asp Glu Leu Asn
                260                 265                 270


Phe Ser Thr Cys Pro Val Lys Tyr Asn Thr Gln Lys Val Leu Leu Val
                275                 280                 285


Arg Asn Ile Gly Asn Lys Asp Ser Met Phe His Leu Lys Thr Arg Ser
    290                 295                 300


Pro Tyr Ser Val Glu Pro Thr Gly Gly Ile Leu Asn Val Gly Glu Ser
305                 310                 315                 320
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Met Gln Leu Glu Val Asp Phe Glu Pro Gln Thr Val Gly Ser His Asp
                325   330   335

Gly Lys Leu Ile Val Thr Tyr Asp Thr Gly Glu Met Val Phe Val Cys
                340   345   350

Leu Tyr Gly Val Ala Ile Asp Val Asn Ile Arg Leu Asp Lys Asn Ser
                355   360   365

Leu Ile Met Glu Lys Thr Tyr Ile Ser Leu Ala Asn Gln Arg Ser Ile
    370   375   380

Thr Ile His Asn Arg Thr Asn Ile Ile Ala His Phe Gln Trp Lys Val
385   390   395   400

Phe Ala Thr Glu Glu Glu Glu Asp Lys Glu Lys Tyr Lys Ile Cys Asp
                405   410   415

Gly Leu Asn Lys Glu Glu Lys Gln Glu Thr Ser Met Ile Leu Glu Asp
                420   425   430

Ser Val Leu Asp Pro Ser Leu Arg Glu Arg Leu Ser Ile Ile Ser Arg
                435   440   445

Thr Phe Glu Asn Gln Arg Lys Leu Val Gln Gly Asp Ser Met Leu Phe
    450   455   460

Leu Asp His Val Phe Thr Ile Glu Pro Pro Glu Gly Asp Val Trp Pro
465   470   475   480

Asn Ser Ser Ala Glu Ile Thr Val Tyr Phe Asn Pro Leu Glu Ala Lys
                485   490   495

Leu Tyr Gln Gln Thr Val Tyr Cys Asp Ile Ser Gly Arg Glu Ile Arg
                500   505   510

Leu Pro Leu Arg Ile Arg Gly Glu Gly Met Gly Pro Lys Leu His Phe
                515   520   525

Asn Phe Glu Leu Leu Asp Ile Gly Lys Val Phe Ile Gly Ser Ala His
    530   535   540

Cys Tyr Glu Ala Ile Leu Ser Asn Lys Gly Ser Ile Asp Ala Leu Phe
545   550   555   560

Asn Val Ile Pro Pro Thr Ser Ala Leu Gly Ala Cys Phe Val Phe Asn
                565   570   575

Pro Lys Glu Gly Ile Ile Glu Pro Ser Gly Val Gln Ala Val Gln Ile
        580   585   590

Ser Phe Ser Ser Thr Ile Leu Gly Tyr Phe Glu Glu Glu Phe Leu Ile
        595   600   605

Asp Val Asn Gly Ser Pro Glu Pro Val Lys Met Thr Ile Arg Gly Cys
        610   615   620

Val Ile Gly Pro Thr Phe His Phe Asn Val Pro Ala Leu Asn Phe Gly
625   630   635   640

Asn Val Ser Tyr Gly Phe Pro His Thr Leu Met Cys Ser Leu Asn Asn
                645   650   655

Thr Ser Leu Val Pro Met Thr Phe Lys Leu Arg Val Arg Gly Asp Gly
        660   665   670

Glu Gly Met Ser Ser Ile Pro Ser Tyr Ser Gln Glu Ser Asp Ser Lys
        675   680   685

Gln Trp Ser Gly Ile Asn Thr Glu Met Pro Thr Thr Lys Pro Lys Glu
        690   695   700

Phe Thr Ile Ser Pro Asn Ser Gly Thr Ile Arg Ala Gln Gly Phe Thr
705   710   715   720

Ala Ile Lys Val Thr Leu Cys Ser Asn Thr Val Gln Lys Tyr Glu Leu
                725   730   735

Ala Leu Val Val Asp Val Glu Gly Ile Gly Glu Glu Val Leu Ala Leu
        740   745   750

Leu Ile Thr Ala Arg Cys Val Val Pro Lys Leu Gln Leu Val Thr Thr
        755   760   765

Glu Val Asp Phe Gly Arg Cys Phe Leu Lys Tyr Pro Tyr Glu Lys Thr
        770   775   780

Ile Gln Leu Val Asn His Asp Asp Leu Pro Gly Cys Tyr Lys Val Leu
785   790   795   800

Pro Gln Leu Tyr Glu Asn Ser Pro Pro Val Leu Leu Ser Ser Pro Ser
                805   810   815

Pro Cys Gly Val Ile Ser Pro His Ser Thr Val Ser Ile Pro Leu Ala
        820   825   830

Leu Glu Thr Gln Val Ile Gly Ala His Arg Ser Ile Val Tyr Ile Ser
    835   840   845

Val Phe Gly Ser Gln Glu Ala Pro Leu Ala Cys Asn Ile Gln Ser Ile
    850   855   860

Gly Glu Gly Pro Val Ile Phe Ile His Pro Thr Gln Ile Asp Phe Gly
865   870   875   880

Asn Ile Tyr Val Leu Lys Asp Thr Ser Arg Ile Leu Gln Leu Ser Asn
        885   890   895

Gln Ser Phe Ile Pro Ala Val Phe Arg Val Arg Met Ala Asn Lys Lys
        900   905   910

Ser Leu Trp Thr Val Lys Pro Ser Glu Gly Ala Val Pro Ala Glu Asp
       915   920   925

Asp Ile Pro Leu Thr Leu Thr Ala Asn Leu Asp Asp Ile Val Thr Phe
    930   935   940

Lys Asp Thr Val Ile Leu Glu Ile Lys His Ser Asn Thr Tyr Arg Ile
945   950   955   960

Pro Ile Gln Ala Thr Gly Ile Gly Ser Thr Ile Val Ser Asp Lys Pro
        965   970   975

Phe Ala Pro Glu Leu Asn Leu Gly Ala His Phe Ser Leu Asp Thr His
        980   985   990

Tyr Tyr Arg Phe Lys Leu Thr Asn Lys Gly Arg Arg Val Gln Gln Leu
       995   1000   1005

Phe Trp Met Asn Asp Asp Phe Arg Pro Lys Glu Lys Gln Ser Lys
    1010   1015   1020

Lys Glu Pro Gly Lys Lys Gly Ser Thr Ser Ser Ser Arg Arg Gln
    1025   1030   1035

Ser Lys Ala Ser Gln Glu Pro Thr Asp Asn Gly Asn Pro Val Phe
    1040   1045   1050

Gln Leu Tyr Pro Val Arg Met Glu Leu Tyr Pro Gly Gln Thr Ile
    1055   1060   1065

Asp Val Ile Leu Glu Gly Tyr Ser Ala Thr Pro Lys Lys Val Lys
    1070   1075   1080

Glu Lys Leu Val Cys Gln Ala Ile Val Gly Thr Gln Lys Gly Lys
    1085   1090   1095

Ser Leu Leu Met Ser Val Asn Ile Ile Cys Glu Phe Ile Ala Pro
    1100   1105   1110

Ile Ile Gln Leu Ser Ala Lys Gln Leu Leu Tyr Arg Leu Glu Lys
    1115   1120   1125

Lys Pro Asn Ser Asn Leu Glu Ser Asp Tyr Gln Ser Leu Val Ile
    1130   1135   1140

Lys Asn Ile Thr Thr Leu Pro Val Asn Met Leu Leu Ser Thr Thr
    1145   1150   1155

Arg Pro Phe Phe Ile Cys Glu Thr Asp Lys Ser Leu Leu Pro Ala
    1160   1165   1170

Thr Pro Lys Pro Ile Lys Leu Glu Val Asp Glu Glu Lys His Leu
    1175   1180   1185

Leu Ile Lys Phe Asp Pro Ser Tyr Arg Asn Asp Leu Asn Asn Trp
    1190   1195   1200

Val Ala Glu Glu Val Leu Ser Ile Lys Tyr Leu Glu His Pro Gln
    1205   1210   1215

Val Asp Asn Leu Gly Leu Arg Ala Glu Val His Tyr Pro Asn Leu
    1220   1225   1230

Ser Phe Glu Val Met Asp Ile Asp Phe Gly Cys Ile Leu Asn Asp
    1235   1240   1245

Thr Glu Val Ile Arg Tyr Ile Met Ile Thr Asn Cys Ser Pro Leu
    1250   1255   1260

Val Val Lys Phe Arg Trp Phe Phe Leu Val Asp Glu Glu Glu Asn
    1265   1270   1275

Gln Ile Arg Phe Ala Pro Cys Met Lys Pro Tyr Ser Ala Phe Leu
    1280   1285   1290

Ser Gln Met Glu Ser Ile Ala Ala Thr Ser Val Thr Ala Ser Ser
    1295   1300   1305

Leu Ala Ala Pro His Thr Val Glu Tyr Thr Glu Met Asp Phe Ser
    1310   1315   1320

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Asp Ser  Ile Lys Thr Ile Leu  Met Asp Asp Glu Ala  Gly Pro Glu
    1325             1330             1335

Glu Ile  Lys Lys Pro Ala Thr  Ser Thr Met Val Ser  Glu Ala Ile
    1340             1345             1350

Lys Tyr  Ser Ser Ala Gly Thr  Glu Arg Ser Gln Ser  Gln Pro Asp
    1355             1360             1365

Tyr Pro  Glu Cys Met Trp Ile  Tyr Glu Gln Asp Glu  Met Leu Ser
    1370             1375             1380

Ile Gly  Ile Glu Glu Val Phe  Asp Ile Leu Pro Leu  Tyr Gly Val
    1385             1390             1395

Leu Arg  Pro Tyr Ser Ser His  Gln Ile Ser Phe Thr  Phe Tyr Gly
    1400             1405             1410

His Cys  Asp Ile Ile Ala Arg  Ala Lys Ala Leu Cys  Glu Val Glu
    1415             1420             1425

Gly Gly  Pro Thr Tyr Glu Val  Leu Leu Lys Gly Glu  Ala Ser Leu
    1430             1435             1440

Val Asn  Tyr Ser Phe Asp Thr  Lys Asp Ile Asn Tyr  Gly Leu Gln
    1445             1450             1455

Leu Phe  Asp His Val Thr Glu  Arg Glu Ile Thr Leu  Lys Asn Thr
    1460             1465             1470

Gly Lys  Val Gly Phe Glu Phe  Asn Val Leu Ser Asn  Tyr Arg Ser
    1475             1480             1485

Ser Gln  Arg Asn Leu Leu Pro  Gly Val Pro Leu Ile  Leu Pro Leu
    1490             1495             1500

Ser Gly  Phe Ile Gln Ser Asn  Lys Glu Gln Val Leu  Lys Val Tyr
    1505             1510             1515

Tyr Leu  Pro Gly Ile Pro Glu  Val Phe Gln Arg Asn  Phe Gln Ile
    1520             1525             1530

Gln Ile  Ala His Leu Val Pro  Glu Asn Ile Thr Leu  Tyr Gly Glu
    1535             1540             1545

Gly Ile  Phe Pro Arg Ile Ser  Leu Asp Leu His Arg  Asn Leu Gln
    1550             1555             1560
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Gly Asn  Glu Lys Tyr Glu His  Phe Leu Glu Gln Ala  Lys Lys Asn
    1565            1570                1575

Val Glu  Lys Glu Tyr Thr Lys  Tyr Glu Ala Val Asp  Gln Tyr Glu
    1580            1585                1590

Val Met  Ala Glu Glu Leu Pro  Glu Glu Glu Thr Ala  Glu Ile Ser
    1595            1600                1605

Ala His  Val Gln Met Glu Val  Glu Arg Leu Ile Val  Gln Asp Tyr
    1610            1615                1620

Ala Leu  Glu His Gln Arg Ser  Ile Ser Asn Asn Thr  Glu Asp Ile
    1625            1630                1635

Tyr Phe  Ser Gln Arg Ser Cys  Arg Lys Leu Thr Lys  Val Gln Leu
    1640            1645                1650

Pro Glu  Tyr Ile Leu Asp Phe  Gly Tyr Ile Val Leu  Gly Asp Val
    1655            1660                1665

Arg Thr  His Ile Val Lys Ile  Thr Asn Thr Ser His  Phe Pro Val
    1670            1675                1680

Ser Phe  His Ala Glu Lys Gln  Val Leu His Glu Thr  Gly Phe Ser
    1685            1690                1695

Thr Glu  Leu Asp Arg Val Lys  Asn Leu Pro Tyr Tyr  Glu Thr Glu
    1700            1705                1710

Thr Phe  Glu Val Arg Cys Asp  Pro Gln Gly Ala Asn  Leu Pro Val
    1715            1720                1725

Gly Asn  Lys Glu Val Ile Leu  Pro Ile Lys Val Tyr  Gly Gly Pro
    1730            1735                1740

Thr Ile  His Leu Cys Leu Gln  Ala Thr Val Ile Ile  Pro Ser Met
    1745            1750                1755

Thr Leu  Ser Cys Asn Lys Ile  Glu Phe Ala Thr Ile  Gln Cys Gly
    1760            1765                1770

Gln Cys  Met Val Glu Thr Ile  Gln Leu Ser Asn His  Leu Gln Val
    1775            1780                1785

Pro Cys  Glu Trp Phe Val His  Thr Pro Lys Ser Thr  Asn Lys Leu
    1790            1795                1800
```

Asp Lys His Met Pro Lys Tyr Leu Arg Arg Lys Leu Gln Ala Glu
    1805   1810   1815

Met Ile Pro Lys Ser Arg Ile Phe Glu Ile Gln Pro Thr Ser Gly
    1820   1825   1830

Ile Leu Asp Pro Gly Glu Arg Ala Asn Val Gln Val Lys Phe Met
    1835   1840   1845

Pro Lys Glu Glu Lys Leu Tyr Ser Gln Ser Leu Leu Phe Gln Ile
    1850   1855   1860

Gly Gln Ser Ser Gln Lys Leu Thr Leu Leu Ala Gln Gly Gln Gly
    1865   1870   1875

Leu Glu Pro Arg Leu Glu Phe Ser Pro Ser Val Leu Glu Leu Gly
    1880   1885   1890

Pro Leu Leu Pro Phe Ala Ser Gly Asp Glu Ala Glu Val Ile Val
    1895   1900   1905

Arg Asn Pro Cys Asn Phe Pro Ile Glu Phe Tyr Ser Leu Glu Phe
    1910   1915   1920

Asp Gln Gln Tyr Leu Leu Glu Glu Lys Met Leu Arg Gln Leu Lys
    1925   1930   1935

Gly Tyr Asp Ser Tyr Asn Thr Leu Leu Leu Pro Pro Arg Asn Pro
    1940   1945   1950

Gly Glu Lys Leu Pro Pro Glu Val Tyr Asp Tyr Phe Lys Glu Met
    1955   1960   1965

Lys Lys Ser Lys Glu Glu His Met Lys Ala Lys Tyr Met Glu Asn
    1970   1975   1980

Leu Glu Asn Glu Glu Glu Glu Met Asn Thr Ser Asp Gln Gly Thr
    1985   1990   1995

Thr Ser Thr Lys Arg Thr Ser Ile Ser Arg Gly Ile Ser Val Thr
    2000   2005   2010

Ser Asn Leu Glu Glu Arg His Leu Thr Ile Glu Ala Lys Asn Tyr
    2015   2020   2025

Leu Asp Glu Asp Asp Tyr Glu Glu Ser Leu Glu Lys Leu Thr Phe
    2030   2035   2040

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Gln Thr  Asp Lys Met Gln Ser  Thr Asp Ser His Ser  Val Glu Glu
    2045                2050                2055

Val Gly  Glu Val Glu Ser Asn  Pro Val Ser Lys Ala  Ile Ala Arg
    2060                2065                2070

His Leu  Gly Ile Asp Ile Ser  Ala Glu Gly Arg Leu  Ala Lys Asn
    2075                2080                2085

Arg Lys  Gly Ile Ala Ile Ile  Val His Gly Thr Pro  Leu Ser Gly
    2090                2095                2100

Lys Thr  Ala Asn Ala Ile Ser  Met Ala Lys Phe Tyr  Asn Ala Ala
    2105                2110                2115

Cys Leu  Asn Ile Asp Ser Ile  Val Leu Glu Ala Leu  Ser Asp Thr
    2120                2125                2130

Asn Asn  Ile Leu Gly Ile Arg  Ala Arg Glu Leu Cys  Ile Arg Ala
    2135                2140                2145

Ala Ile  Glu Gln Ser Met Arg  Glu Ala Glu Glu Ser  Ala His Glu
    2150                2155                2160

Ser Ser  Met Thr Gln Asn Thr  Val Val Pro Ala Arg  Leu Ser Thr
    2165                2170                2175

Glu Asn  Leu Gly Arg Phe Thr  Ser Glu Leu Thr Leu  Ile Thr Gln
    2180                2185                2190

Glu Tyr  Lys Val Pro Lys Thr  Val Arg Gly Ser Val  Met Leu Pro
    2195                2200                2205

Lys Gly  Lys Ala Asp Ser His  Phe Thr Gly Ser Gln  Lys Gln His
    2210                2215                2220

His Gln  His Gln Ser Glu Thr  Pro Gln Val Gln Ile  Ser Ser Ser
    2225                2230                2235

Pro Leu  Leu Pro Gly Pro Thr  His Arg Arg Leu Ser  Val Ser Ala
    2240                2245                2250

Ser Ile  Gly Gly Glu Thr Gly  Leu Met Ser Cys Val  Leu Pro Asp
    2255                2260                2265

Asp Leu  Leu Ile Gln Ile Leu  Ala Glu Arg Ile Gln  Leu Ser Asn
    2270                2275                2280
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Cys Phe  Arg Gly Val Val Phe  Asp Gly Leu Asp Thr  Leu Phe Ala
    2285                 2290                 2295


Arg Asn  Ala Pro Ser Ala Leu  His Cys Leu Leu Lys  Ala Ile Gly
    2300                 2305                 2310


Ser Arg  Glu His Ile Tyr Val  Ile Asn Met Ser Gln  Asp Tyr Val
    2315                 2320                 2325


Val Met  Lys Ala Gln Glu Lys  Ala Lys Lys Glu Gln  Glu Glu Asn
    2330                 2335                 2340


Lys Arg  Lys Glu Ala Leu Ala  Lys Glu Lys Glu Arg  Leu Gln Thr
    2345                 2350                 2355


Leu Asp  Glu Asp Glu Tyr Asp  Ala Leu Thr Ala Glu  Glu Lys Val
    2360                 2365                 2370


Ala Phe  Asp Arg Asp Val Arg  Gln Ala Leu Arg Glu  Arg Lys Lys
    2375                 2380                 2385


Arg Glu  Leu Glu Arg Leu Ala  Lys Glu Met Gln Glu  Lys Lys Leu
    2390                 2395                 2400


Gln Gln  Glu Leu Glu Arg Gln  Lys Glu Glu Asp Glu  Leu Lys Arg
    2405                 2410                 2415


Lys Val  Lys Arg Pro Lys Ala  Gly Pro Ala Ala Lys  Glu Glu Pro
    2420                 2425                 2430


Pro Leu  Lys Lys Ala Gln Gly  Ala Thr Asn Lys Gln  Leu Ala Ala
    2435                 2440                 2445


Val Ala  Lys Ile Glu Leu Lys  Met Glu Ser Ile Glu  Arg Lys Val
    2450                 2455                 2460


Ser Val  Arg Glu His Ala Thr  Leu Glu Glu Thr Thr  Arg Lys Lys
    2465                 2470                 2475


Lys Ala  Met Thr Glu Tyr Pro  Leu Leu Ile Pro Ile  Ser Gln Glu
    2480                 2485                 2490


Gln Glu  Asp Ser Glu Gly Asp  Phe Leu Lys Asp Ser  Asp Lys Asn
    2495                 2500                 2505


Leu Ala  Gln Lys Phe Lys Ile  Tyr Asp Met Cys Leu  Lys Asp Val
    2510                 2515                 2520
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Gln Asn  Ile Leu Met Tyr Trp  Asp Arg Lys Gln Gly  Met Met Val
    2525                 2530             2535


Pro His  Thr Gly Thr Asp Glu  Met Ser His Glu Ala  Asp Asp Gln
    2540                 2545             2550


Arg Gln  Ala Pro Ser Gly Gly  Gly Gly Arg Lys Gly  Arg Lys Asp
    2555                 2560             2565


Arg Glu  Arg Glu Arg Leu Glu  Lys Glu Arg Ala Glu  Lys Glu Arg
    2570                 2575             2580


Leu Glu  Arg Glu Lys Ala Glu  Arg Glu Arg Leu Glu  Lys Leu Lys
    2585                 2590             2595


Ala Leu  Glu Glu Arg Ser Asp  Val Glu Gly Glu Gly  Glu Glu Glu
    2600                 2605             2610


His Glu  Gly Lys Lys Asp Leu  Gly Val Pro Phe Ile  Asn Ile Gln
    2615                 2620             2625


Ser Pro  Asp Phe Glu Gly Val  Ser Trp Lys Gln Ala  Leu Glu Ser
    2630                 2635             2640


Asp Lys  Leu Pro Lys Gly Asp  Gln Ile Leu Asp Ile  Leu Gly Leu
    2645                 2650             2655


Gly Ser  Ser Gly Pro Pro Ile  Pro Pro Pro Val Leu  Phe Ser Ile
    2660                 2665             2670


Ile Ser  Tyr Pro Ala Lys Arg  Gln Ser Leu Val Ala  Thr Glu Ile
    2675                 2680             2685


Leu Lys  His Phe Val Phe Val  Ile Pro Pro Asn Asp  Asp Ile Pro
    2690                 2695             2700


Leu Met  Asp Glu Lys Lys Asp  Pro Glu Gly Asp Ser  Asp Ile Phe
    2705                 2710             2715


Leu Asn  Thr Ile Ile Thr Lys  Ala Gln Glu Glu Gln  Pro Ser Pro
    2720                 2725             2730


Pro Lys  Gly Ser Lys Gln Lys  Leu Lys Asp Lys Pro  Glu Gln Val
    2735                 2740             2745


Arg Glu  Thr Gln Lys Glu Lys  Arg Arg Thr Tyr Ser  Ser Arg Lys
    2750                 2755             2760
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Gly Leu  Pro Gly Gly Thr Ser  Gly Ser Ile Val Pro  Met Ser Asp
    2765                 2770                 2775


Ile Asp  Gln Asn Ser Phe Asp  Gly Glu His Ser Gln  Glu Lys Phe
    2780                 2785                 2790


Ile Arg  Leu Asn His Phe Arg  Trp Ile Val Pro Pro  Asn Gly Glu
    2795                 2800                 2805


Val Thr  Leu Arg Val His Phe  Ser Ser Leu Asp Val  Gly Asn Tyr
    2810                 2815                 2820


Asp Gln  Thr Phe Asn Phe Glu  Leu Leu Gly Thr Arg  Arg Gln Tyr
    2825                 2830                 2835


Gln Leu  Tyr Cys Arg Gly Val  Cys Thr Tyr Pro Tyr  Ile Cys Arg
    2840                 2845                 2850


Asp Pro  Lys Val Val Phe Ser  Gln Arg Lys Lys Asp  Met Lys Leu
    2855                 2860                 2865


Lys Glu  Val Val Val Lys Lys  Tyr Val Val Ser Met  Glu Lys Phe
    2870                 2875                 2880


Tyr Phe  Gly Pro Leu Leu Cys  Gly Lys Ser Arg Asp  Lys Tyr Lys
    2885                 2890                 2895


Ser Ser  Leu Phe Pro Gly Asn  Met Glu Thr Leu Thr  Ile Leu Asn
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Asp Ser  Pro Met Val Val Glu  Ala Tyr Phe Cys Phe  Gln His Asp
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Ile Lys  Ala Ser Thr Tyr Phe  Leu Glu Pro Val Asn  Met Thr Leu
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Lys Pro  Asn Glu Lys Gln Ala  Leu Asn Val Trp Ala  Tyr Pro Thr
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Ala Val  Gly Ile Phe Glu Asp  Ser Ile Val Cys Cys  Ile Lys Glu
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Asn Pro  Glu Pro Ala Ile Phe  Lys Leu Ser Cys Gln  Gly Ile Arg
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Pro Glu  Ile Glu Val Glu Pro  Arg Gln Leu His Phe  Asp Arg Leu
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Thr Pro Leu Pro Val Ala Trp Arg Ile Ser Asn Leu Glu His Leu
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Gly Glu Asp Phe Thr Val Ser Met Met Gln Gly Thr Met Leu Pro
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Lys Gly Glu Tyr Gly Leu Gln Val His Phe Gln Pro Ser Lys Pro
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Val Asn Ile Lys Lys Ala Ile Arg Ile Glu Val Leu Asp Ala Glu
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Asn Leu Val Gly Val Val Gln Ile Glu Asn Ile Leu Ile Phe Ala
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Glu Ser Tyr Asp Ile Ala Leu Asp Ile Thr Phe Pro Lys Gly Ala
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Glu Gly Gly Leu Asp Phe Gly Thr Leu Arg Val Met Glu Glu Val
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Lys Gln Thr Leu Gln Leu Lys Asn Arg Gly Lys Tyr Glu Ile Ile
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Phe Ser Phe Thr Val Asp Thr Leu Gly Val Leu Pro Thr Asn Leu
    3140   3145   3150

Ser Ser Met Ile Ser Val Gln Pro Lys Arg Gly Thr Leu Ala Ser
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Ile Asp Lys Pro Thr Thr Val Gln Val Phe Phe Arg Ala Arg Lys
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Glu Val Lys Ile Asp Cys Gln Pro Ile Leu Arg Cys Gln Ile Ile
    3185   3190   3195

Glu Pro Thr Leu Pro Glu Gly Glu Ile Ile Ala Ser Ile Pro Ile
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Lys Phe Ser Val Asn Ala Val Tyr Ser Lys Phe Thr Ile Ser Pro
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Ser Ser Ile Ile Asn Phe Gly Ala Leu Ile Cys Gly Thr Arg Lys
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Ser Ile  Thr Phe Thr Ile Glu  Asn Gln Gly Ile Ile  Asp Phe Lys
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Tyr Ala  Leu Tyr Arg Leu Thr  Gly Glu Ser Pro Ile  Leu Gln Lys
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Lys Ile  Thr Ser His Met Arg  His Gly Arg Thr Arg  Glu Ser Glu
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Ser Phe  Tyr Lys Pro Gly Ala  Thr Lys Met Ala Lys  Phe Ser Asp
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Thr Val  Gln Lys Asp Thr Asn  Ile Ala Asn Gln Ala  Arg Phe Thr
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His Gly  Met Phe Thr Val Tyr  Pro Gly Phe Gly Ser  Ile Pro Ser
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Gly Gly  Gln Gln Val Ile Thr  Ile Glu Cys Phe Ala  Asp Pro Val
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Gly Arg  Cys Glu Glu Phe Leu  Ala Ile Asp Ile Ser  Asp Arg Asp
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Pro Arg  Glu Asn Pro Ala Gly  Ile Pro Tyr Thr Leu  Leu Ala Glu
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Ala Cys  Leu Pro Ala Phe Val  Thr Asp Asn Asn Ile  Leu Ile Phe
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Glu Glu  His Gln Ile Cys Thr  Ser Pro Asn Leu Tyr  His Ile Leu
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Gln Thr  Ile Gln Ser Gly Gly  Leu Phe Val Glu Asp  Glu Asn Lys
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Phe Ile  Phe Cys Asn Val Leu  Val Gly His Gln Ala  Lys Ala Arg
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Phe Lys  Ile Ser Asn Val Gly  Lys Ile Ser Cys Asp  Ile Asn Ile
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Val Ile  Lys Pro Ile Ser Asn  Lys Pro Ala Asn Arg  Ile Thr Asp
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Thr Phe  Asp Val Glu Pro Ser  Lys Met Cys Ile Gly  Ser Arg Ser
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His Ala  Phe Val Thr Val Leu  Phe Thr Pro Gln Thr  Met Gln Thr
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Tyr Gln  Cys Ile Phe Glu Ala  Thr Leu Asp Gly Leu  Pro Ser Asn
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Ile Ala  Arg Ser Arg Gly Leu  Val Phe Asp Ile Val  Gly Glu Gly
    3515                 3520                 3525

Thr Leu  Pro Arg Val Thr Val  Ile Arg Pro Thr Leu  Tyr Asn Gln
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His Gly  Asn Pro Leu Leu Leu  Phe Lys Arg Leu Leu  Leu Gly His
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Ser Glu  Lys Leu Pro Leu Ile  Leu Lys Asn Asn Gly  Thr Ile Pro
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Ala Gln  Leu His Val Asp Leu  Arg Asp Gln Leu Gly  Val Phe Ser
    3575                 3580                 3585

Leu Lys  Gly Arg Pro Thr Thr  Ser Tyr Ile Tyr Ile  Met Glu Glu
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Asn Lys  Pro Asn Glu Lys Val  Lys Lys Ala His Thr  Ala Ser Leu
    3605                 3610                 3615

Val Val  Ser Pro Gly Asp Thr  Ala Glu Phe Asp Val  Phe Phe His
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Ser Asn  Lys Ile Gly Arg Met  Thr Gly Thr Ile His  Leu Ser Val
    3635                 3640                 3645

Ile Asn  Asn Gln Tyr Glu Glu  Thr Met Ile His Leu  Val Gly Glu
    3650                 3655                 3660

Ser Tyr  Glu Asp Asp Ile Thr  Leu Asp Asn Ile His  Gly Leu Ile
    3665                 3670                 3675

Ser Ser  Thr Ser Gln Glu Ser  Ser Asp Lys Ser Glu  Val Ile Glu
    3680                 3685                 3690

Ile Ala  Glu Glu Ser Thr Met  Glu Asp Leu Val Thr  Ala Ala Leu
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Met Glu  His Ile Gln Phe Gly  Tyr Cys His Ile Gly  Ile Ser Tyr
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Asn Val Ser Phe Thr Ile Thr Asn His Ser Gln Val Asn Val Ile
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Arg Phe Glu Trp Pro Leu Leu Ala Thr Leu Ser Phe Ser Pro Gln
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Ile Gly His Leu His Pro Gly Cys Ser Lys Asp Val Val Val Thr
        3755   3760   3765

Leu Lys Ser Glu Ser Pro Ile Thr Leu Lys Lys Met Cys Val Lys
        3770   3775   3780

Cys Lys Leu Ser Lys Ile Met Phe Gln Leu Pro Val Asp Gln Val
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Pro Asp Trp Asp Asp Arg Met Arg Thr Val Lys Trp Val Asp Ala
        3800   3805   3810

Pro Arg Asn Thr Pro Leu Thr Leu Asn Thr Lys Arg Lys Val Ile
        3815   3820   3825

Glu Met Asp Pro Glu Pro Ala His Ser Val Val Glu Glu Asn Tyr
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Arg Glu Leu Arg Ile Gln Phe Ser Ala Asn Val Asp Phe Ala Ser
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Tyr Gln Cys Glu Thr Thr Glu Val Phe Phe Lys Glu Thr Leu Val
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Tyr Gln Thr Arg Val Phe Glu Phe Asp Leu Val Asn Thr Gly Gln
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Val Leu Leu Glu Phe Cys Trp Ile Ser Glu Glu Ala Ser Lys Ala
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Val Ser Phe Ala Met Pro Glu Arg Gln Gly Ser Ser Gln Lys Glu
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Leu Ser Gln Gly Ser Gly Ser Ser Leu Asp Ser Ala Leu Asp Arg
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Trp Thr Glu Ala Ser Pro Ser Pro Phe Ser Val Glu Pro Pro Ser
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Gly Val Val Pro Val Gly Lys Thr Gln Lys Leu Lys Val Lys Phe
        3950   3955   3960

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Ser Pro  Met Asp Ile Gly Glu  Phe Glu Ser Ser Leu  Tyr Cys Gln
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Ile Pro  Asn Leu Pro Leu Gly  Glu Gln Gly Pro Ile  Leu Ile Thr
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Lys Gly  Arg Ser Val Leu Pro  Phe Cys His Phe Asp  Leu Lys Glu
    3995               4000               4005

Ser Asp  Tyr Ile Ser Gly His  Arg Arg Asn Pro Glu  Leu Arg Gly
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Pro Gly  Ala Gly Pro Leu Glu  Pro Asn Thr Arg Val  Ile Glu Phe
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Thr Ser  Val Gly Ile Gly Gly  Lys Asn Val Gln Thr  Phe Thr Ile
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Leu Asn  Pro Thr Asn Ser Thr  Tyr Ser Phe Cys Trp  Thr Ser Glu
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Glu Thr  Glu Ser Leu Gln His  Pro Pro Ala Phe Val  Cys Leu Thr
    4070               4075               4080

Glu Lys  Gly Ile Ile His Pro  Glu Lys Lys Ala Glu  Ile Ile Phe
    4085               4090               4095

Gln Phe  Leu Pro Ala His Leu  Asp Ile Thr Glu Glu  Phe Trp Thr
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Phe Ser  Ile Pro Glu His Asn  Ile Ser Val Pro Phe  Leu Leu Val
    4115               4120               4125

Gly Lys  Thr Thr Asp Pro Leu  Ile Ser Leu Asp Lys  Ser His Leu
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Asn Phe  Ser Ser Leu Leu Ile  Gly Arg Glu Ala Arg  Glu Thr Val
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Lys Ile  Ile Asn Lys Glu Glu  Gln Gly Phe Asn Phe  Ala Phe Gln
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Asp Asn  Ser Arg Tyr Ser Glu  Gly Phe Asn Asn Ser  Leu Ile Val
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Cys Pro  Met Glu Gly Trp Ile  Pro Pro Leu Ser Arg  Phe Pro Val
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Asp Ile  Phe Phe Thr Pro Lys  Gln Glu Gly Asp Val  Asn Phe Asn
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Leu Ile  Cys Asn Ile Lys Lys  Lys Ala His Pro Leu  Thr Leu Asn
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Val Lys  Ala Glu Gly Tyr Thr  Met Asn Ala Glu Val  Lys Cys Arg
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Asp Arg  Met Gly Thr Thr Ile  Leu Leu Thr Ser Thr  Gln Val Asn
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Thr Ile  Asn Phe Tyr Glu Val  Glu Leu Asn Glu Cys  Val Gln Cys
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Glu Phe  Ser Phe Ile Asn Thr  Gly Lys Phe Asn Phe  Ser Tyr Gln
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Ala Glu  Leu Ser Gly Pro Lys  Leu Leu Leu Gln Tyr  Leu Asp Phe
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Thr Pro  Thr Asp Ser Ser Val  Asp Val Gly Gln Ser  Glu Pro Ala
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Asn Leu  Ser Phe Gln Pro Tyr  Gln Lys Cys Val Leu  Lys Gly Leu
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Glu Leu  Lys Ile Lys Ile Ser  His Gly Pro Thr Phe  Val Cys Asn
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Ile Leu  Gly Cys Ala Val Ser  Pro Ala Val His Phe  Ser Phe Thr
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Ser His  Asn Phe Gly Thr Cys  Phe Ile Tyr Gln Ala  Gly Met Pro
    4370                  4375              4380

Pro Tyr  Lys Gln Ile Leu Val  Val Thr Asn Lys Glu  Glu Thr Ser
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Met Ser  Leu Asp Cys Leu Tyr  Thr Asn Thr Pro His  Ile Glu Val
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Asn Phe  Asn Val Asp Val Ile  Lys Pro Gly Lys Thr  Leu Glu Ile
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Pro Ile  Thr Phe Tyr Pro Arg  Glu Ala Ile Ser Tyr  Arg Glu Leu
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Asn Arg  Ile Val Lys Leu Gly  Ala Val Leu Pro Gly  Gln Val Val
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Arg Lys  Thr Val Ser Leu Val  Asn Asn Ser Leu Ala  Gln Leu Thr
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Phe Asn  His Ser Val Leu Phe  Ser Ile Pro Glu Leu  Gln Glu Ala
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Lys Val  Ile Thr Leu Glu Pro  Phe His Thr Ile Thr  Met Lys Pro
    4520             4525             4530

Lys Glu  Val Cys Lys Leu Glu  Ile Thr Phe Ala Pro  Lys Lys Arg
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Val Pro  Pro Phe Ser Glu Glu  Val Phe Met Glu Trp  Met Gly Leu
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Leu Arg  Pro Leu Phe Leu Leu  Ser Gly Cys Cys Gln  Ala Leu Glu
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Ile Ser  Leu Asp Gln Glu His  Leu Pro Phe Gly Pro  Val Val Tyr
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Gln Thr  Gln Ala Thr Arg Arg  Ile Leu Ile Met Asn  Thr Gly Asp
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Val Gly  Ala Arg Phe Lys Trp  Asp Val Lys Lys Leu  Lys Pro His
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Phe Ser  Ile Ser Pro Glu Glu  Gly Tyr Ile Ile Ser  Gly Thr Glu
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Val Ala  Leu Glu Val Thr Tyr  His Pro Thr Glu Ile  Gly Lys Glu
    4640             4645             4650

Ser Leu  Tyr Lys Asn Ile Leu  Cys Phe Ile Gln Gly  Gly Asn Pro
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Leu Cys  Leu Thr Leu Ser Gly  Thr Cys Val Gly Pro  Pro Val Val
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Lys Glu Val Val Asn Phe Asn Cys Gln Val Arg Ser Arg His Thr
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Gln Thr Ile Leu Leu Ser Asn Arg Ser Asn Gln Thr Trp Asn Leu
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His Pro Ile Phe Glu Gly Glu His Trp Glu Gly Pro Glu Phe Ile
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Thr Leu Glu Ala His Gln Gln Asn Lys Pro Tyr Glu Ile Thr Tyr
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Lys Pro Arg Thr Met Asn Leu Glu Asn Arg Lys His Gln Gly Thr
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Leu Phe Phe Pro Leu Pro Asp Gly Thr Gly Trp Leu Tyr Ala Leu
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His Gly Thr Ala Glu Leu Pro Lys Ala Val Ala Asn Ile Tyr Arg
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Glu Val Pro Cys Lys Thr Pro Tyr Thr Glu Leu Leu Pro Ile Ser
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Asn Trp Leu Asn Lys Pro Gln Arg Phe Arg Val Ile Val Glu Ile
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Leu Lys Pro Glu Lys Thr Asp Leu Ser Val Thr Leu Lys Gly Leu
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Asp Tyr Ile Asp Val Leu Ser Gly Ser Lys Lys Asp Tyr Lys Leu
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Asn Phe Phe Ser Tyr Lys Glu Gly Leu Tyr Thr Ala Lys Val Ile
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Phe Arg Asn Glu Val Thr Asn Glu Phe Leu Tyr Tyr Thr Val Ser
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Phe Arg Val Thr Pro Ser Gly Ile Ile Lys Thr Ile Gln Met Thr
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Ser Pro Val Arg Gln Ser Val Ser Ala Ser Ile Lys Leu Glu Asn
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Pro Leu Pro Tyr Ser Val Thr Phe Ser Thr Glu Cys Lys Leu Ser
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Gly Thr  Phe Ser Phe Glu Phe  Gln Pro Leu Lys Ala  Gly Glu Leu
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Cys Gly  Arg Leu Thr Leu His  Asn Ser Asp Leu Gly  Tyr Tyr Gln
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Tyr Glu  Leu Ala Leu Lys Ala  Leu Pro Ala Pro Pro  Glu Lys Pro
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Val His  Phe Gln Thr Val Leu  Gly Ser Ser Gln Ser  Ile Leu Ala
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Lys Phe  Thr Asn Tyr Thr Arg  Leu Lys Thr Glu Tyr  Tyr Cys Lys
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Thr Asp  Cys Ser Asp Phe His  Thr Glu Lys Val Ile  Asn Ala Ala
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Pro Gly  Ala Gln Gly Gly Thr  Glu Val Ser Val Glu  Val Phe Phe
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Glu Pro  Ser His Leu Gly Glu  Thr Lys Gly Ile Leu  Cys Leu Ser
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Ser Leu  Ile Gly Gly Glu Tyr  Ile Ile Pro Leu Phe  Gly Ile Ala
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Leu Pro  Pro Lys Pro Gln Gly  Pro Phe Leu Ile Arg  Ala Gly Tyr
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Asn Ile  Ile Ile Pro Phe Lys  Asn Val Phe Leu His  Ala Thr Ser
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Phe Ser  Phe Ile Val Glu Asn  Pro Ala Phe Ser Ile  Arg Ala Ala
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Glu Thr  Val Arg Pro Lys Lys  Ile Asn Asn Ile Thr  Val Tyr Phe
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Glu Gly  Asn Pro Ser Gly Ser  Lys Thr Pro Ile Thr  Ser Lys Leu
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<213>  Homo sapiens

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                20                  25                  30


Val Asn Arg Met Leu Thr Pro Ser Glu Phe Leu Lys Glu Met Ser Leu
            35                  40                  45


Thr Thr Glu Gln Arg Leu Ala Lys Thr Arg Leu Met Cys Arg Pro Gln
        50                  55                  60


Ile Ile Glu Leu Leu Asp Met Gly Glu Thr Thr His Gln Lys Phe Ser
65                  70                  75                  80


Gly Ile Asp Leu Asp Gln Ala Leu Phe Gln Pro Phe Pro Ser Glu Ile
                85                  90                  95


Ile Phe Gln Asn Tyr Thr Pro Cys Glu Val Tyr Glu Val Pro Leu Ile
                100                 105                 110


Leu Arg Asn Asn Asp Lys Ile Pro Arg Leu Val Lys Val Val Glu Glu
            115                 120                 125


Ser Ser Pro Tyr Phe Lys Val Ile Ser Pro Lys Asp Ile Gly His Lys
        130                 135                 140


Val Ala Pro Gly Val Pro Ser Ile Phe Arg Ile Leu Phe Thr Pro Glu
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Glu Asn Lys Asp Tyr Ala His Thr Leu Thr Cys Val Thr Glu Arg Glu
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Lys Phe Ile Val Pro Ile Lys Ala Arg Gly Ala Arg Ala Ile Leu Asp
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Phe Pro Asp Lys Leu Asn Phe Ser Thr Cys Pro Val Lys Tyr Ser Thr
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Gln Lys Ile Leu Leu Val Arg Asn Ile Gly Asn Lys Asn Ala Val Phe
    210   215   220

His Ile Lys Thr Cys Arg Pro Phe Ser Ile Glu Pro Ala Ile Gly Thr
225   230   235   240

Leu Asn Val Gly Glu Ser Met Gln Leu Glu Val Glu Phe Glu Pro Gln
            245   250   255

Ser Val Gly Asp His Ser Gly Arg Leu Ile Val Cys Tyr Asp Thr Gly
            260   265   270

Glu Lys Val Phe Val Ser Leu Tyr Gly Ala Ala Ile Asp Met Asn Ile
            275   280   285

Arg Leu Asp Lys Asn Ser Leu Thr Ile Glu Lys Thr Tyr Ile Ser Leu
    290   295   300

Ala Asn Gln Arg Thr Ile Thr Ile His Asn Arg Ser Asn Ile Ile Ala
305   310   315   320

His Phe Leu Trp Lys Val Phe Ala Thr Gln Gln Glu Glu Asp Arg Glu
            325   330   335

Lys Tyr Arg Ala Cys Asp Asp Leu Ile Lys Glu Glu Lys Asp Glu Thr
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Asp Glu Phe Phe Glu Glu Cys Ile Thr Asp Pro Leu Leu Arg Glu His
            355   360   365

Leu Ser Val Leu Ser Arg Thr Phe Ala Asn Gln Arg Arg Leu Val Gln
    370   375   380

Gly Asp Ser Lys Leu Phe Phe Asn Asn Val Phe Thr Val Glu Pro Leu
385   390   395   400

Glu Gly Asp Val Trp Pro Asn Ser Ser Ala Glu Ile Thr Val Tyr Phe
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        435               440               445

Gly Pro Lys Ile His Phe Asn Phe Glu Leu Leu Asp Ile Gly Lys Val
    450               455               460

Phe Thr Gly Ser Ala His Cys Tyr Glu Ala Ile Leu Tyr Asn Lys Asp
465               470               475               480

Ser Ile Asp Ala Leu Phe Asn Met Thr Pro Pro Thr Ser Ala Leu Gly
            485               490               495

Ala Cys Phe Val Phe Ser Pro Lys Glu Gly Ile Ile Glu Pro Ser Gly
        500               505               510

Val Gln Ala Ile Gln Ile Ser Phe Ser Ser Thr Ile Leu Gly Asn Phe
        515               520               525

Glu Glu Glu Phe Leu Val Asn Val Asn Gly Ser Pro Glu Pro Val Lys
    530               535               540

Leu Thr Ile Arg Gly Cys Val Ile Gly Pro Thr Phe His Phe Asn Val
545               550               555               560

Pro Ala Leu His Phe Gly Asp Val Ser Phe Gly Phe Pro His Thr Leu
            565               570               575

Ile Cys Ser Leu Asn Asn Thr Ser Leu Ile Pro Met Thr Tyr Lys Leu
        580               585               590

Arg Ile Pro Gly Asp Gly Leu Gly His Lys Ser Ile Ser Tyr Cys Glu
        595               600               605

Gln His Val Asp Tyr Lys Arg Pro Ser Trp Thr Lys Glu Glu Ile Ser
    610               615               620

Ser Met Lys Pro Lys Glu Phe Thr Ile Ser Pro Asp Cys Gly Thr Ile
625               630               635               640

Arg Pro Gln Gly Phe Ala Ala Ile Arg Val Thr Leu Cys Ser Asn Thr
            645               650               655

Val Gln Lys Tyr Glu Leu Ala Leu Val Val Asp Val Glu Gly Ile Gly
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Glu Glu Val Leu Ala Leu Leu Ile Ala Ala Arg Cys Val Val Pro Ala
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Leu His Leu Val Asn Thr Glu Val Asp Phe Gly His Cys Phe Leu Lys
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Tyr Pro Tyr Glu Lys Thr Leu Gln Leu Ala Asp Gln Asp Asp Leu Pro
705                 710                 715                 720

Gly Phe Tyr Glu Val Gln Pro Gln Val Cys Glu Glu Val Pro Thr Val
                725                 730                 735

Leu Phe Ser Ser Pro Thr Pro Ser Gly Val Ile Ser Pro Ser Ser Thr
                740                 745                 750

Ile His Ile Pro Leu Val Leu Glu Thr Gln Val Thr Gly Glu His Arg
                755                 760                 765

Ser Thr Val Tyr Ile Ser Ile Phe Gly Ser Gln Asp Pro Pro Leu Val
        770                 775                 780

Cys His Leu Lys Ser Ala Gly Glu Gly Pro Val Ile Tyr Val His Pro
785                 790                 795                 800

Asn Gln Val Asp Phe Gly Asn Ile Tyr Val Leu Lys Asp Ser Ser Arg
                805                 810                 815

Ile Leu Asn Leu Cys Asn Gln Ser Phe Ile Pro Ala Phe Phe Gln Ala
        820                 825                 830

His Met Ala His Lys Lys Ser Leu Trp Thr Ile Glu Pro Asn Glu Gly
        835                 840                 845

Met Val Pro Pro Glu Thr Asp Val Gln Leu Ala Leu Thr Ala Asn Leu
        850                 855                 860

Asn Asp Thr Leu Thr Phe Lys Asp Cys Val Ile Leu Asp Ile Glu Asn
865                 870                 875                 880

Ser Ser Thr Tyr Arg Ile Pro Val Gln Ala Ser Gly Thr Gly Ser Thr
                885                 890                 895

Ile Val Ser Asp Lys Pro Phe Ala Pro Glu Leu Asn Leu Gly Ala His
                900                 905                 910

Phe Ser Leu Asp Thr His Tyr Tyr His Phe Lys Leu Ile Asn Lys Gly
        915                 920                 925
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Arg Arg Ile Gln Gln Leu Phe Trp Met Asn Asp Ser Phe Arg Pro Gln
    930   935   940

Ala Lys Leu Ser Lys Lys Gly Arg Val Lys Lys Gly His Ala His Val
945   950   955   960

Gln Pro Gln Pro Ser Gly Ser Gln Glu Pro Arg Asp Pro Gln Ser Pro
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Val Phe His Leu His Pro Ala Ser Met Glu Leu Tyr Pro Gly Gln Ala
                980   985   990

Ile Asp Val Ile Leu Glu Gly Tyr Ser Ala Thr Pro Arg Ile Val Lys
            995   1000   1005

Glu Lys Leu Val Cys His Ala Ile Ile Gly Ala Gln Lys Gly Lys
    1010   1015   1020

Ser Leu Val Met Ala Val Asn Ile Thr Cys Glu Phe Val Ala Pro
    1025   1030   1035

Leu Ile Gln Leu Ser Thr Lys Gln Leu Ile Tyr Arg Leu Glu Lys
    1040   1045   1050

Lys Pro Asn Ser Ile Leu Lys Pro Asp Tyr Gln Pro Leu Ala Val
    1055   1060   1065

Lys Asn Ile Ser Thr Leu Pro Val Asn Leu Leu Leu Ser Thr Ser
    1070   1075   1080

Gly Pro Phe Phe Ile Cys Glu Thr Asp Lys Ser Leu Leu Pro Ala
    1085   1090   1095

Thr Pro Glu Pro Ile Lys Leu Glu Ile Asp Glu Glu Lys Asn Leu
    1100   1105   1110

Leu Ile Lys Phe Asp Pro Ser Tyr Arg Asn Asp Leu Asn Asn Trp
    1115   1120   1125

Val Ala Glu Glu Ile Leu Ala Ile Lys Tyr Val Glu His Pro Gln
    1130   1135   1140

Ile Asp Ser Leu Asp Leu Arg Gly Glu Val His Tyr Pro Asn Leu
    1145   1150   1155

Ser Phe Glu Thr Lys Glu Leu Asp Phe Gly Cys Ile Leu Asn Asp
    1160   1165   1170

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Thr Glu  Leu Ile Arg Tyr Val  Thr Ile Thr Asn Cys  Ser Pro Leu
    1175                 1180                 1185


Val Val  Lys Phe Arg Trp Phe  Phe Leu Val Asn Asp  Glu Glu Asn
    1190                 1195                 1200


Gln Ile  Arg Phe Val Thr Leu  Pro Lys Lys Pro Tyr  Ser Ala Pro
    1205                 1210                 1215


Leu Ser  Gln Met Glu Ser Ile  Pro Ala Thr Ser Glu  Ala Ala Ser
    1220                 1225                 1230


Pro Pro  Ala Ile Leu Val Thr  Val Glu Ser Pro Glu  Met Asp Leu
    1235                 1240                 1245


Asn Asp  Phe Val Lys Thr Val  Leu Val Asp Glu Asp  Ala Arg Pro
    1250                 1255                 1260


Glu Glu  Lys Glu Leu Arg Lys  Thr Lys Ala Ser Ser  Val Ile Ser
    1265                 1270                 1275


Asp Glu  Ile Lys Ile Ser Ser  Thr Glu Ile Glu Arg  Ile Tyr Ser
    1280                 1285                 1290


Ser Gln  Ser Gln Val Glu Asp  Gln Glu Ser Leu Gln  Thr Cys Glu
    1295                 1300                 1305


Gln Asn  Glu Met Leu Ser Ile  Gly Ile Glu Glu Val  Phe Asp Ile
    1310                 1315                 1320


Leu Pro  Leu Phe Gly Val Leu  Gln Pro His Ser Ser  His Gln Ile
    1325                 1330                 1335


Ser Phe  Thr Phe Tyr Gly His  Ala Asn Ile Ile Ala  Gln Ala Lys
    1340                 1345                 1350


Ala Leu  Cys Glu Val Glu Glu  Gly Pro Thr Tyr Glu  Ile Thr Leu
    1355                 1360                 1365


Lys Gly  Glu Ala Ser Leu Val  Asn Tyr Ser Phe Asp  Thr Lys Asp
    1370                 1375                 1380


Ile His  Tyr Gly Leu Gln Leu  Phe Asp His Val Thr  Glu Arg Glu
    1385                 1390                 1395


Ile Thr  Leu Thr Asn Met Gly  Lys Val Gly Phe Glu  Phe Lys Val
    1400                 1405                 1410
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Leu Thr  Asp His Gln Ser Ser  Pro Asp Asn Leu Leu  Pro Gly Val
    1415                1420            1425

Pro Leu  Ile Leu Pro Val Ser  Gly Phe Ile Ser Ser  His Gln Glu
    1430                1435            1440

Gln Val  Leu Lys Val Tyr Tyr  Leu Pro Gly Val Pro  Glu Val Phe
    1445                1450            1455

Lys Arg  Ser Phe Gln Ile Gln  Ile Ala His Leu Asp  Pro Glu Asn
    1460                1465            1470

Ile Thr  Leu Ser Gly Glu Gly  Ile Phe Pro Gln Ile  Cys Leu Asp
    1475                1480            1485

Leu Pro  Arg Asn Leu Thr Ala  Asn Glu Lys Tyr Glu  Met Phe Leu
    1490                1495            1500

Asn Gln  Ala Arg Lys Asn Thr  Asp Lys Glu Tyr Asn  Lys Cys Glu
    1505                1510            1515

Met Leu  Asp His Phe Asp Val  Ile Thr Glu Glu Val  Pro Glu Asp
    1520                1525            1530

Glu Pro  Ala Glu Val Ser Ala  His Leu Gln Met Glu  Val Glu Arg
    1535                1540            1545

Leu Ile  Val Gln Ser Tyr Val  Leu Glu His Gln Lys  Thr Thr Thr
    1550                1555            1560

Pro Asp  Pro Met Asp Asp Pro  Cys Phe Ser His Arg  Ser Arg Arg
    1565                1570            1575

Lys Leu  Ala Lys Ile Gln Leu  Pro Glu Tyr Ile Leu  Asp Phe Gly
    1580                1585            1590

Tyr Ile  Ile Leu Gly Glu Val  Arg Thr His Ile Ile  Lys Ile Ile
    1595                1600            1605

Asn Thr  Ser His Phe Pro Val  Ser Phe His Ala Asp  Lys Arg Val
    1610                1615            1620

Leu His  Glu Thr Gly Phe Ser  Thr Glu Leu Asp Arg  Val Lys Asn
    1625                1630            1635

Leu Pro  His Cys Glu Thr Glu  Ile Phe Glu Val Arg  Phe Asp Pro
    1640                1645            1650
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Gln Gly  Ala Asn Leu Pro Val  Gly Ser Lys Glu Val  Ile Leu Pro
    1655                1660                1665


Ile Lys  Val Val Gly Gly Pro  Thr Val His Ile Cys  Leu Gln Ala
    1670                1675                1680


Lys Val  Thr Ile Pro Thr Met  Thr Leu Ser Arg Gly  Lys Val Asp
    1685                1690                1695


Phe Ala  Thr Ile Gln Cys Gly  Gln Cys Leu Val Glu  Thr Ile Gln
    1700                1705                1710


Leu Ser  Asn His Leu Gln Val  Pro Cys Glu Trp Phe  Val Gln Ser
    1715                1720                1725


Gln Lys  Pro Val Asp Lys Leu  Glu Lys His Met Pro  Lys Tyr Leu
    1730                1735                1740


Arg Gln  Lys Leu Arg Ala Glu  Leu Lys Pro Lys Thr  Arg Ile Phe
    1745                1750                1755


Glu Ile  Gln Pro Ile Ser Gly  Val Leu Asp Pro Gly  Glu Lys Ser
    1760                1765                1770


Asn Val  Gln Val Lys Phe Met  Pro Lys Glu Glu Lys  Phe Tyr Ser
    1775                1780                1785


Gln Thr  Leu Val Phe Gln Ile  Ala Gln Ser Ala Gln  Lys Leu Thr
    1790                1795                1800


Leu Leu  Ala Arg Gly Gln Gly  Leu Glu Pro Arg Leu  Glu Phe Ser
    1805                1810                1815


Pro Ser  Val Leu Asp Leu Gly  Pro Leu Leu Leu Cys  Ala Pro Gly
    1820                1825                1830


Asp Glu  Ala Glu Val Ile Val  Lys Asn Pro Cys Asn  Phe Pro Ile
    1835                1840                1845


Glu Phe  Tyr Ser Leu Glu Phe  Asp Gln Gln Tyr Leu  Ile Glu Glu
    1850                1855                1860


Lys Ile  Leu Arg Lys Leu Lys  Gly Tyr Asp Ser Tyr  Asn Thr Leu
    1865                1870                1875


Leu Leu  Pro Pro His Asn Pro  Gly Glu Lys Leu Pro  Pro Glu Leu
    1880                1885                1890
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Tyr Glu  Tyr Phe Lys Glu Ile  Lys Lys Ser Lys Glu  Glu Gln Met
    1895                 1900              1905

Arg Ala  Lys Tyr Leu Glu Asn  Leu Ala Gln Glu Asn  Glu Glu Glu
    1910                 1915              1920

Asp Ile  Thr Ser Ser Asp Gln  Gly Thr Ser Asn Ser  Thr Lys Arg
    1925                 1930              1935

Thr Ser  Leu Ser Arg Gly Ile  Ser Val Thr Ser Asn  Leu Glu Glu
    1940                 1945              1950

Trp His  Ala Leu Leu Val Glu  Ser Lys Thr Tyr Leu  Glu Glu Glu
    1955                 1960              1965

Glu Asp  Glu Glu Ser Leu Glu  Lys Ile Ile Phe Gln  Thr Asp Lys
    1970                 1975              1980

Leu Gln  Ser Ile Asp Ser His  Ser Met Glu Glu Val  Gly Glu Val
    1985                 1990              1995

Glu Asn  Asn Pro Val Ser Lys  Ala Ile Ala Arg His  Leu Gly Ile
    2000                 2005              2010

Asp Ile  Ser Ala Glu Gly Arg  Leu Ala Lys Asn Arg  Lys Gly Ile
    2015                 2020              2025

Ala Ile  Ile Ile His Gly Thr  Pro Leu Ser Gly Lys  Ser Ala Asn
    2030                 2035              2040

Ala Val  Ser Val Ala Lys Tyr  Tyr Asn Ala Ala Cys  Leu Ser Ile
    2045                 2050              2055

Asp Ser  Ile Val Leu Glu Ala  Val Ala Asn Ser Asn  Asn Ile Pro
    2060                 2065              2070

Gly Ile  Arg Ala Cys Glu Leu  Cys Ile Arg Ala Ala  Ile Glu Gln
    2075                 2080              2085

Ser Met  Lys Glu Gly Glu Glu  Ala Ala Gln Glu Ala  Ala Val Gly
    2090                 2095              2100

Gln Asn  Val Ile Gly Gln Gly  Arg Leu Ser Thr Asp  Thr Leu Gly
    2105                 2110              2115

Lys Leu  Ala Ser Glu Met Thr  Leu Val Ala Pro Glu  Ile Lys Pro
    2120                 2125              2130
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Gly Lys   Ser Val Arg Gly Ser   Val Val Ile Thr Lys   Ser Lys Ala
    2135                  2140                  2145

Asp Ser   His Gly Ser Gly Ser   Gln Lys Gln His His   Ser His Gln
    2150                  2155                  2160

Ser Glu   Thr Pro Gln Ile Ser   Ser Ser Pro Leu Pro   Pro Gly Pro
    2165                  2170                  2175

Ile His   Arg Trp Leu Ser Val   Ser Pro Ser Val Gly   Gly Glu Thr
    2180                  2185                  2190

Gly Leu   Met Ser Cys Val Leu   Pro Asp Glu Leu Leu   Val Gln Ile
    2195                  2200                  2205

Leu Ala   Glu Arg Ile Gln Leu   Ser Asp Cys Tyr Arg   Gly Val Val
    2210                  2215                  2220

Phe Asp   Gly Leu Asp Thr Leu   Phe Ala Arg Asn Ala   Ala Ala Ala
    2225                  2230                  2235

Leu Leu   Cys Leu Leu Lys Ala   Ile Gly Ser Arg Glu   His Ile Tyr
    2240                  2245                  2250

Ile Leu   Asn Met Ala Gln Asp   Tyr Ala Ala Met Lys   Ala Arg Glu
    2255                  2260                  2265

Lys Ala   Lys Lys Glu Gln Glu   Glu Arg Lys His Lys   Gly Ala Leu
    2270                  2275                  2280

Glu Lys   Glu Lys Glu Arg Leu   Gln Asn Met Asp Glu   Glu Glu Tyr
    2285                  2290                  2295

Asp Ala   Leu Thr Glu Glu Glu   Lys Leu Thr Phe Asp   Arg Gly Ile
    2300                  2305                  2310

Gln Gln   Ala Leu Arg Glu Arg   Lys Lys Arg Glu Gln   Glu Arg Leu
    2315                  2320                  2325

Ala Lys   Glu Met Gln Glu Lys   Lys Leu Gln Gln Glu   Leu Glu Arg
    2330                  2335                  2340

Gln Lys   Glu Glu Asp Glu Leu   Lys Arg Arg Val Lys   Lys Gly Lys
    2345                  2350                  2355

Gln Gly   Pro Ile Lys Glu Glu   Pro Pro Met Lys Lys   Ser Gln Ala
    2360                  2365                  2370
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Ala Asn  Lys Gln Val Pro Pro  Leu Thr Lys Val Asp  Val Lys Met
    2375                2380                2385


Glu Thr  Ile Glu Arg Lys Ile  Ser Val Arg Glu Gln  Thr Met Ser
    2390                2395                2400


Glu Lys  Glu Glu Leu Asn Lys  Lys Lys Arg Asn Met  Gly Asp Val
    2405                2410                2415


Ser Met  His Gly Leu Pro Leu  Val Gln Asp Gln Glu  Asp Ser Glu
    2420                2425                2430


Gly Asp  Asn Ser Lys Asp Pro  Asp Lys Gln Leu Ala  Pro Lys Phe
    2435                2440                2445


Lys Thr  Tyr Glu Leu Thr Leu  Lys Asp Val Gln Asn  Ile Leu Met
    2450                2455                2460


Tyr Trp  Asp Arg Lys Gln Gly  Val Gln Leu Pro Pro  Ala Gly Met
    2465                2470                2475


Glu Glu  Ala Pro His Glu Pro  Asp Asp Gln Arg Gln  Val Pro Leu
    2480                2485                2490


Gly Gly  Arg Arg Gly Arg Lys  Asp Arg Glu Arg Glu  Arg Leu Glu
    2495                2500                2505


Lys Glu  Arg Thr Glu Lys Glu  Arg Leu Glu Arg Glu  Lys Ala Glu
    2510                2515                2520


Arg Glu  Arg Leu Glu Lys Leu  Arg Ala Leu Glu Glu  Arg Ser Asp
    2525                2530                2535


Trp Glu  Gly Glu Gly Glu Glu  Asp His Glu Gly Lys  Lys Glu Lys
    2540                2545                2550


Asp Leu  Gly Val Pro Phe Leu  Asp Ile Gln Thr Pro  Asp Phe Glu
    2555                2560                2565


Gly Leu  Ser Trp Lys Gln Ala  Leu Glu Ser Asp Lys  Leu Pro Lys
    2570                2575                2580


Gly Glu  Gln Ile Leu Asp Ile  Leu Gly Leu Gly Ala  Ser Gly Pro
    2585                2590                2595


Pro Ile  Pro Pro Pro Ala Leu  Phe Ser Ile Val Ser  Tyr Pro Val
    2600                2605                2610
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Lys Arg  Pro Pro Leu Thr Met  Thr Asp Asp Leu Glu  His Phe Val
    2615             2620              2625

Phe Val  Ile Pro Pro Ser Glu  Asp Ile Ser Leu Asp  Glu Lys Lys
    2630             2635              2640

Glu Met  Glu Ile Glu Ser Asp  Phe Leu Ala Thr Thr  Asn Thr Thr
    2645             2650              2655

Lys Ala  Gln Glu Glu Gln Thr  Ser Ser Ser Lys Gly  Gly Lys Gln
    2660             2665              2670

Lys Met  Lys Glu Lys Ile Asp  Gln Val Phe Glu Ile  Gln Lys Asp
    2675             2680              2685

Lys Arg  His Met Ala Leu Asn  Arg Lys Val Leu Ser  Gly Glu Pro
    2690             2695              2700

Ala Gly  Thr Ile Ser Gln Leu  Ser Asp Thr Asp Leu  Asp Asn Phe
    2705             2710              2715

Asn Gly  Gln His Ser Gln Glu  Lys Phe Thr Arg Leu  Asn His Phe
    2720             2725              2730

Arg Trp  Ile Val Pro Ala Asn  Gly Glu Val Thr Leu  Gln Val His
    2735             2740              2745

Phe Ser  Ser Asp Glu Phe Gly  Asn Phe Asp Gln Thr  Phe Asn Phe
    2750             2755              2760

Glu Ile  Leu Gly Thr Cys Cys  Gln Tyr Gln Leu Tyr  Cys Arg Gly
    2765             2770              2775

Ile Cys  Thr Tyr Pro Tyr Ile  Cys Gln Asp Pro Lys  Val Val Phe
    2780             2785              2790

Pro Gln  Arg Lys Met Asp Met  Lys Thr Asn Glu Val  Ile Phe Lys
    2795             2800              2805

Lys Tyr  Val Met Ser Thr Glu  Thr Tyr Tyr Phe Gly  Pro Leu Leu
    2810             2815              2820

Cys Gly  Lys Ser Arg Asp Lys  Tyr Lys Ser Ser Leu  Phe Pro Gly
    2825             2830              2835

Asn Met  Glu Thr Leu Thr Ile  Leu Asn Thr Ser Leu  Met Val Val
    2840             2845              2850
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Glu Ala Ser Phe Tyr Phe Gln Asn Asp Val Lys Ala Asn Thr Tyr
    2855   2860   2865

Phe Leu Glu Pro Asn Thr Met Val Leu Lys Pro Asn Glu Lys Gln
    2870   2875   2880

Ile Leu Asn Val Trp Ala Tyr Pro Thr Ser Val Gly Val Phe Glu
    2885   2890   2895

Asp Ser Ile Val Cys Cys Ile Asn Asp Asn Pro Glu Pro Ala Ile
    2900   2905   2910

Phe Gln Leu Ser Cys Gln Gly Ile Arg Pro Glu Leu Glu Leu Glu
    2915   2920   2925

Pro Arg Gln Leu His Phe Asp Arg Leu Leu Leu His Arg Gln Glu
    2930   2935   2940

Ser Arg Val Val Leu Leu Arg Asn Val Thr Leu Leu Pro Val Ala
    2945   2950   2955

Trp Arg Ile Thr Ser Leu Glu His Leu Gly Asp Asp Phe Thr Val
    2960   2965   2970

Ser Leu Met Gln Gly Thr Ile Pro Pro Glu Ala Glu Tyr Gly Leu
    2975   2980   2985

His Leu Tyr Phe Gln Pro Thr Lys Pro Val Asn Ile Lys Lys Ala
    2990   2995   3000

Ile Arg Leu Glu Val Leu Asp Ala Glu Asn Leu Leu Gly Val Val
    3005   3010   3015

Gln Ile Glu Asn Ile Met Val Phe Ala Glu Ala Tyr Asp Ile Ala
    3020   3025   3030

Leu Asp Ile Thr Phe Pro Lys Gly Ala Glu Gly Gly Leu Asp Phe
    3035   3040   3045

Gly Ile Val Arg Val Thr Glu Glu Ala Lys Gln Pro Leu Gln Leu
    3050   3055   3060

Lys Asn Arg Gly Lys Tyr Glu Ile Ala Phe Ser Phe Ser Val Asp
    3065   3070   3075

Ser Val Gly Ile Ser Thr Pro Asn Ile Asn Ser Met Ile Ser Val
    3080   3085   3090

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Gln Pro  Lys Lys Gly Ser Leu  Thr Pro Thr Glu Lys  Pro Thr Asn
    3095                3100                3105


Val Gln  Val Phe Phe His Ala  Lys Lys Glu Val Lys  Ile Glu His
    3110                3115                3120


Gln Pro  Val Leu Arg Cys Gln  Ile Ile Glu Pro Asn  Ile Ser Glu
    3125                3130                3135


Gly Gly  Glu Ile Ile Ala Ser  Ile Pro Ile Lys Phe  Ser Ala Asn
    3140                3145                3150


Ala Val  Tyr Ser Lys Tyr Asn  Ile Thr Pro Ser Ser  Val Ile Asn
    3155                3160                3165


Phe Gly  Ala Leu Ile Cys Gly  Thr Arg Lys Ser Thr  Thr Phe Thr
    3170                3175                3180


Ile Glu  Asn Gln Gly Val Thr  Asp Phe Lys Phe Ala  Leu Tyr Lys
    3185                3190                3195


Leu Thr  Gly Glu Ser Pro Ile  His Gln Lys Lys Ala  Ala Ser His
    3200                3205                3210


Val Arg  His Ala Arg Ser Arg  Glu Ser Glu Ser Phe  Tyr Lys Thr
    3215                3220                3225


Gly Ser  Ser Arg Ala Ala Lys  Phe Ser Asp Thr Ile  Gln Lys Glu
    3230                3235                3240


Val Thr  Thr Thr Gly Gln Ala  Arg Phe Ala His Gly  Met Phe Thr
    3245                3250                3255


Val Tyr  Pro Gly Phe Gly Ser  Ile Pro Ser Gly Gly  Gln Gln Val
    3260                3265                3270


Ile Asn  Val Asp Cys Val Ala  Asp Ala Met Gly Lys  Cys Glu Glu
    3275                3280                3285


Phe Ile  Ala Ile Asp Ile Ser  Gly Arg Asp Pro Ala  Val His Pro
    3290                3295                3300


Ala Gly  Ile Leu Tyr Thr Leu  Leu Ala Glu Ala Cys  Leu Pro Ala
    3305                3310                3315


Phe Val  Thr Glu Asn Asn Ala  Leu Ile Phe Glu Glu  His Gln Ile
    3320                3325                3330
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Cys Thr Ser Ala Asn Leu His His Ile Leu Gln Thr Ile Glu Ser
    3335   3340   3345

Gly Gly Leu Phe Val Glu Asp Glu Asn Lys Phe Ile Phe Cys Asn
    3350   3355   3360

Val Leu Val Gly Arg Gln Ala Lys Ala Arg Phe Lys Ile Ser Asn
    3365   3370   3375

Val Gly Lys Ile Thr Cys Asp Val Asn Ile Val Val Arg Pro Ile
    3380   3385   3390

Ser Asn Lys Pro Phe Ala Arg Ile Val Asp Ile Phe Glu Val Glu
    3395   3400   3405

Pro Ser Lys Met Cys Ile Ala Ser His Ser His Ala Phe Ala Thr
    3410   3415   3420

Val Ser Phe Thr Pro Gln Ile Met Gln Asn Tyr Gln Cys Ile Phe
    3425   3430   3435

Glu Ala Thr Leu Asp Gly Leu Pro Ser Thr Leu Ala Lys Ser Arg
    3440   3445   3450

Gly Leu Val Phe Asp Ile Ala Gly Glu Gly Asn Leu Pro Arg Val
    3455   3460   3465

Thr Val Val Arg Pro Val Leu His Asn Gln Tyr Gly Asn Pro Leu
    3470   3475   3480

Leu Leu Phe Lys Arg Leu Leu Leu Gly His Ser Glu Lys Leu Pro
    3485   3490   3495

Leu Ile Leu Lys Asn Asn Gly Val Leu Pro Ala Gln Leu His Val
    3500   3505   3510

Asp Leu Gln Asp Glu Leu Gly Val Phe Ser Leu Lys Gly Arg Pro
    3515   3520   3525

Thr Thr Ala Tyr Ile Tyr Ile Thr Glu Glu Asn Lys Pro His Val
    3530   3535   3540

Lys Ala Lys Lys Ala His Thr Ala Ser Leu Val Val Ser Pro Gly
    3545   3550   3555

Asp Thr Ala Glu Phe Asp Val Val Phe His Ser Gln Lys Val Gly
    3560   3565   3570

Arg Met Arg Gly Ile Ile His Leu Ser Val Ile Asn Asn Gln Tyr
    3575   3580   3585

Glu Glu Thr Ser Ile His Met Val Gly Glu Gly Tyr Glu Asp Asp
    3590   3595   3600

Ile Thr Leu Asp Asn Ile His Gly Leu Val Ala Pro Thr Ser Gln
    3605   3610   3615

Glu Asp Ile Ser Ile Ser Glu Phe Thr Glu Ile Ile Glu Asp Asn
    3620   3625   3630

Asp Met Glu Asp Leu Val Ala Ala Ala Leu Val Asp His Ile Gln
    3635   3640   3645

Phe Gly Asp Cys His Ile Gly His Ser Tyr Asn Ala Ser Phe Thr
    3650   3655   3660

Val Thr Asn His Ser Gln Val Asn Leu Ile Arg Phe Glu Trp Pro
    3665   3670   3675

Val Ser Ala Thr Ile Ala Phe Ser Pro Gln Met Gly His Leu His
    3680   3685   3690

Pro Gly Cys Ala Lys Asp Ile Val Val Thr Met Lys Ser Asp Val
    3695   3700   3705

Pro Ile Asn Leu Lys Asn Met Arg Ile Arg Cys Lys Leu Ser Arg
    3710   3715   3720

Ile Met Phe Gln Leu Pro Ala Asp Gln Val Pro Asp Trp Asp Asp
    3725   3730   3735

Arg Met His Thr Val Lys Trp Val Asp Val Pro Arg Asn Met Pro
    3740   3745   3750

Gly Thr Phe Thr Thr Lys Arg Lys Val Ile Glu Thr Asp Pro Glu
    3755   3760   3765

Pro Ala His Ser Val Leu Glu Glu Asn Tyr Gln Glu Leu Gln Leu
    3770   3775   3780

Gln Ile Ser Ala Asn Val Asp Phe Ala Ser Tyr His Cys Gln Ala
    3785   3790   3795

Arg Asp Val Arg Phe Lys Glu Thr Leu Val Tyr Gln Thr Arg Val
    3800   3805   3810

Phe Glu Phe Asp Val Ile Asn Ser Gly Arg Val Gln Leu Glu Phe
    3815   3820   3825

Ser Trp Val Ser Glu Asp Thr Ser Lys Ala Val Ser Phe Ala Lys
    3830   3835   3840

Pro Asp His Gln Gly Ser Ala Gln Lys Asp Gln Leu Ser Gln Gly
    3845   3850   3855

Thr Met His Thr Gly Ser Thr Leu Asp Ser Thr Met Asp His Trp
    3860   3865   3870

Ala Glu Gly Ser Pro Gln Pro Phe Ser Val Glu Pro Ser Ser Gly
    3875   3880   3885

Ile Val Pro Val Gly Lys Ile Gln Lys Phe Lys Val Lys Phe Ser
    3890   3895   3900

Pro Leu Asp Ile Gly Asp Phe Glu Ser Asn Leu Phe Cys Gln Ile
    3905   3910   3915

Pro Asn Leu Pro Pro Gly Glu Gln Gly Pro Val Leu Val Ala Lys
    3920   3925   3930

Gly Arg Ser Thr Leu Pro Ile Cys His Phe Asp Leu Lys Asp Ser
    3935   3940   3945

Asp Tyr Ile Ser Gly His Gln Arg Asn Pro Glu Leu Arg Gly Ser
    3950   3955   3960

Ser Gly Gly Ala Leu Asp Pro Asn Thr Arg Val Ile Glu Phe Thr
    3965   3970   3975

Thr Val Gly Ile Gly Gly Lys Asn Leu Arg Thr Phe Thr Ile Leu
    3980   3985   3990

Asn Pro Thr Asn Ser Thr Tyr Ser Phe Cys Trp Ile Ser Glu Ile
    3995   4000   4005

Val Phe Gln Phe Thr Pro Phe His Leu Gly Ile Thr Glu Ser Ser
    4010   4015   4020

Trp Thr Phe Leu Ile Pro Glu His Asn Ile Thr Ile Val Phe Gln
    4025   4030   4035

Phe Thr Pro Phe His Leu Gly Ile Thr Glu Ser Ser Trp Thr Phe
    4040   4045   4050

Leu Ile Pro Glu His Asn Ile Thr Val Pro Phe Leu Leu Val Gly
    4055   4060   4065

Lys Thr Thr Glu Pro Leu Ile Ser Leu Asn Lys Ser His Leu Asn
    4070   4075   4080

Phe Ser Ser Leu Leu Ile Gly Arg Glu Ala Arg Glu Thr Val Gln
    4085   4090   4095

Ile Ile Asn Lys Glu Glu Gln Gly Phe Asp Phe Ser Phe Gln Asp
    4100   4105   4110

Asn Ser Arg Tyr Ser Glu Gly Phe Ser Asn Ser Leu Leu Val Cys
    4115   4120   4125

Pro Met Glu Gly Trp Ile Pro Pro Leu Ser Arg Phe Pro Ile Asp
    4130   4135   4140

Ile Phe Phe Thr Pro Lys Gln Glu Gly Asp Val Asn Phe Asn Leu
    4145   4150   4155

Ile Cys Asn Val Glu Lys Lys Val His Pro Val Thr Leu Asn Val
    4160   4165   4170

Lys Ala Glu Gly Tyr Thr Met Asn Val Glu Ile Lys Cys Lys Asp
    4175   4180   4185

Arg Thr Gly Ser Ile Thr Leu Leu Thr Pro Asn Gln Thr Asn Ile
    4190   4195   4200

Ile Asn Phe Tyr Glu Val Glu Leu Asn Glu Cys Val Gln Cys Glu
    4205   4210   4215

Phe Asn Phe Ile Asn Thr Gly Lys Phe Thr Phe Ser Phe Gln Ala
    4220   4225   4230

Gln Leu Cys Gly Ser Lys Thr Leu Leu Gln Tyr Leu Glu Phe Ser
    4235   4240   4245

Pro Ile Asp Ser Thr Val Asp Val Gly Gln Ser Val His Ala Thr
    4250   4255   4260

Leu Ser Phe Gln Pro Leu Lys Lys Cys Val Leu Thr Asp Leu Glu
    4265   4270   4275

Leu Ile Ile Lys Ile Ser His Gly Pro Thr Phe Met Cys Asn Ile
    4280   4285   4290

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Ser Gly  Cys Ala Val Ser Pro  Ala Ile His Phe Ser  Phe Thr Ser
    4295                4300             4305

Tyr Asn  Phe Gly Thr Cys Phe  Ile Tyr Gln Ala Gly  Met Pro Pro
    4310                4315             4320

Tyr Lys  Gln Thr Leu Val Ile  Thr Asn Lys Glu Glu  Thr Pro Met
    4325                4330             4335

Ser Ile  Asp Cys Leu Tyr Thr  Asn Thr Thr His Leu  Glu Val Asn
    4340                4345             4350

Ser Arg  Val Asp Val Val Lys  Pro Gly Asn Thr Leu  Glu Ile Pro
    4355                4360             4365

Ile Thr  Phe Tyr Pro Arg Glu  Ser Ile Asn Tyr Gln  Glu Leu Ile
    4370                4375             4380

Pro Phe  Glu Ile Asn Gly Leu  Ser Gln Gln Thr Val  Glu Ile Lys
    4385                4390             4395

Gly Lys  Gly Thr Lys Met Lys  Ile Leu Val Leu Asp  Pro Ala Asn
    4400                4405             4410

Arg Ile  Val Lys Leu Gly Ala  Val Leu Pro Gly Gln  Val Val Lys
    4415                4420             4425

Arg Thr  Val Ser Ile Met Asn  Asn Ser Leu Ala Gln  Leu Thr Phe
    4430                4435             4440

Asn Gln  Ser Ile Leu Phe Thr  Ile Pro Glu Leu Gln  Glu Pro Lys
    4445                4450             4455

Val Leu  Thr Leu Ala Pro Phe  His Asn Ile Thr Leu  Lys Pro Lys
    4460                4465             4470

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